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**CENTRAL FAX CENTER****SEP 25 2007****FAX TRANSMISSION****DATE:** September 25, 2007**PTO IDENTIFIER:** Application Number 10/719,564-Conf. #3551  
Patent Number**Inventor:** Mitsuharu IMASEKI et al.**MESSAGE TO:** US Patent and Trademark Office**FAX NUMBER:** (571) 273-8300**FROM:** LAHIVE & COCKFIELD, LLP

Anthony A. Laurentano

**PHONE:** (617) 994-0753**Attorney Dkt. #:** NGW-013**PAGES (Including Cover Sheet):** 13**CONTENTS:** Response to Office Communication (2 pages)  
Translation of Examination Report (5 pages)  
Copy of Supplemental Information Disclosure Statement dtd 8/3/2007 (2 pages)  
Copy of PTO Form SB/08 (1 page)  
Copy of English abstract for Citation B1 (1 page)  
Certificate of Transmission (1 page)

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PTO/SB/97 (09-04)

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U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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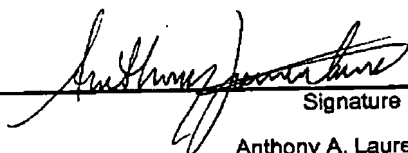
Application No. (if known): 10/719,564

Attorney Docket No.: NGW-013

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Anthony A. Laurentano

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38,220

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Response to Office Communication (2 pages)

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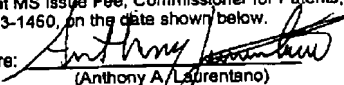
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Docket No.: NGW-013  
(PATENT)

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Dated: September 25, 2007 Signature:   
(Anthony A. Laurentano)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Mitsuharu Imaseki *et al.*

Application No.: 10/719,564

Confirmation No.: 3551

Filed: November 20, 2003

Art Unit: 1745

For: COOLING STRUCTURE FOR FUEL CELL  
VEHICLE

Examiner: M. Ruthkosky

RESPONSE TO OFFICE COMMUNICATION

MS Issue Fee  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In response to the Office Communication received on August 31, 2007 from the U.S. Patent Office (Paper No. 20070824), Applicants' attorney obtained a translation of the Japanese Examination Report dated May 15, 2007 for corresponding Japanese Patent Application No. 2002-336689 and encloses a copy herewith for the Examiner's review. Also enclosed for the Examiner's convenience are copies of the Supplemental Information Disclosure Statement, PTO Form SB/08, and English abstract of Citation No. B1: JP 06-239147, all submitted to the U.S. Patent Office on August 3, 2007.

## Notification of Reason for Refusal

Issue Date: May 15, 2007

Patent Application No. Patent application 2002-336689

Drafting Date May 9, 2007

Examiner of JPO Haruyuki KANAMARU 9535 3D00

Representative/Applicant Messrs. Masatake SHIGA

(and 5 others)

Applied Provision Patent Law Section 29(2)

The application should be refused for the reason mentioned below. If the applicant has any argument against the reason, such argument should be submitted within 60 days from the date on which this notification was dispatched.

## Reason

The inventions in the claims listed below of this application should not be granted a patent under the provision of Patent Law Section 29(2) since they could have easily been made by persons who have common knowledge in the technical field to which the inventions pertain, on the basis of inventions described in the publications listed below which were distributed, or inventions made available to public through an electric communication line, in Japan or foreign countries prior to the filing of the subject application.

## Note

## • Claims 1 - 6

## • Cited documents

1. JP-A-2000-315513 (hereinafter, referred to as "first cited document".)

2. JP-A-06-239147 (hereinafter, referred to as "second cited document".)

## • Remark

With regard to Claim 1

The cited document 1 discloses a cooling structure for a fuel cell vehicle, which comprises a fuel cell, a drive motor for driving the vehicle using the energy generated by the fuel cell, a first cooling flow passage for cooling the fuel cell using a first cooling medium cooled by a main radiator, and a second cooling flow passage for cooling the drive motor or a power control unit of the drive motor using a second cooling medium cooled by an auxiliary radiator. On the one hand, the cited document 2 discloses such a technique that a radiator is disposed in a central portion of a front surface of a vehicle body, and an inter cooler and an oil cooler are disposed on the front surface of the vehicle body in such a manner that their heat exchange surfaces are situated shifted in a vehicle-width direction so as to prevent them from being

overlapped with a heat exchange surface of the radiator. A person skilled in the art could easily arrive at an idea of realizing a configuration as shown in the invention of Claim 1 in the subject application, by applying the technique disclosed in the cited document 2 to the cooling structure for a fuel cell vehicle disclosed in the cited document 1.

With regard to Claim 2

The cited document 1 discloses a cooling structure for a fuel cell vehicle, which comprises a fuel cell, a drive motor for driving the vehicle using the energy generated by the fuel cell, a first cooling flow passage for cooling the fuel cell using a first cooling medium cooled by a main radiator, and a second cooling flow passage for cooling the drive motor or a power control unit of the drive motor using a second cooling medium cooled by an auxiliary radiator. On the one hand, the cited document 2 discloses such a technique that a radiator is disposed on a front surface of a vehicle body so as to extend substantially over a vehicle-width-direction entire area existing between a pair of right and left main frames respectively disposed along a back-and-forth direction of the vehicle body, and an inter cooler and an oil cooler are disposed on the front surface of the vehicle body in such a manner that they are situated outside the main frames. A person skilled in the art could easily arrive at an idea of realizing a

configuration as shown in the invention of Claim 1 in the subject application, by applying the technique disclosed in the cited document 2 to the cooling structure for a fuel cell vehicle disclosed in the cited document 1.

With regard to Claim 3

The cited document 2 discloses such a technique that an inter cooler and an oil cooler are disposed in such a manner that their heat exchange surfaces face obliquely forwardly and outwardly.

With regard to Claim 4

The cited document 2 discloses such a technique that a radiator is disposed in such a manner that its heat exchange surface faces obliquely forwardly and outwardly.

With regard to Claim 5

A person skilled in the art could arrive at an idea of disposing, between a main radiator and an auxiliary radiator, a seal member for closing a space existing between them.

With regard to Claim 6

The cited document 2 discloses such a technique that an installation height of an inter cooler and an oil cooler is set lower than that of a radiator.

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Record of the result of prior art search

- Technical field to be searched IPC B60K 11/04

This record is not a component of the reason for refusal.

If the applicant has any inquiry regarding content of this notification of reason for refusal, or wish for an interview, please make contact with Patent Examination Second Department, Transport, Haruyuki KANAMARU (TEL. 03(3581)1101 Extension 3339).



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Express Mail Label No. EM 066426558 US Dated: August 3, 2007

Docket No.: NGW-013  
(PATENT)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Mitsuharu Imaseki *et al.*

Application No.: 10/719,564

Confirmation No.: 3551

Filed: November 20, 2003

Art Unit: 1745

For: COOLING STRUCTURE FOR FUEL CELL  
VEHICLE

Examiner: M. Ruthkosky

MS Issue Fee  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)

Dear Sir:

In accordance with 37 CFR 1.97, Applicants hereby make of record the following additional documents. A PTO Form SB/08 and a full copy of each of the documents required under 37 CFR 1.98(a)(2) accompany this statement.

Applicants have become aware of the following documents, cited in a Japanese Examination Report issued May 15, 2007, during the prosecution of Application No. 2002-336689, which corresponds to the above referenced application, and in accordance with 37 CFR 1.97(c) and (e)(1) or (b)(3), hereby submit these documents for the Examiner's consideration. These documents are cited on the enclosed PTO Form SB/08, and a copy of the Examination Report and of each document required under 37 CFR 1.98(a)(2) cited thereon are enclosed as well.

This statement is not to be interpreted as a representation that the cited documents are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any document herein be construed *per se* as a representation that

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Application No.: 10/719,564

SEP 25 2007

Docket No.: NGW-013

such document is prior art. Moreover, Applicants understand the Examiner will make an independent evaluation of the cited documents.

Please note that Applicants' attorney does not include in this Supplemental Information Disclosure Statement reference JP-A-2000-315513 cited in the corresponding Examination Report. This reference was previously submitted in an Information Disclosure Statement to the U.S. Patent Office in this case on November 20, 2003.

This Information Disclosure Statement is filed after the mailing date of a Notice of Allowance, but before payment of the Issue Fee (37 CFR 1.97(d)). Applicants hereby petition that the Supplemental Information Disclosure Statement be considered.

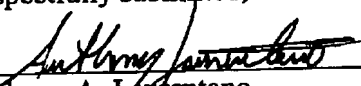
I hereby certify, pursuant to 37 CFR 1.97(e)(1), that each item of information contained in this Supplemental Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Supplemental Information Disclosure Statement.

Please charge our Deposit Account No. 12-0080 in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 12-0080, under Order No. NGW-013.

Dated: August 3, 2007

AAL/mch

Respectfully submitted,

By   
Anthony A. Laurentano  
Registration No.: 38,220  
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(617) 227-7400  
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Attorney/Agent For Applicant

COPY

Used in Lieu of PTO/SB/08A/B  
(Based on PTO 04-07 version)

Substitute for form 1448/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/719,564-Conf. #3551
				Filing Date	November 20, 2003
				First Named Inventor	Mitsuharu IMASEKI
				Art Unit	1745
				Examiner Name	M. Ruthkosky
Sheet	1	of	1	Attorney Docket Number	NGW-013

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
	B1	JP-6-239147	08-30-1994	Mazda Motor Corp.		Abstr.

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C1	Japanese Examination Report for Application No. 2002-336689, dated May 15, 2007	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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# PATENT ABSTRACTS OF JAPAN

COPY

(11)Publication number : 06-239147

(43)Date of publication of application : 30.08.1994

(51)Int.Cl.

B60K 11/04

(21)Application number : 05-047326

(71)Applicant : MAZDA MOTOR CORP

(22)Date of filing : 12.02.1993

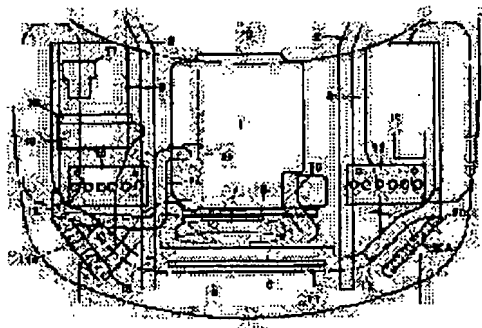
(72)Inventor : FUJII YOSHIO  
MARUTA TETSUYA  
MATSUGU TAKASHI  
MUKAI YOSHIKI

## (54) FRONT SIDE STRUCTURE OF AUTOMOBILE

### (57)Abstract:

**PURPOSE:** To cool a timing belt and the like provided at the front end of an engine by the running wind, as well as to increase the cooling efficiency of the intake air and to realize a small size of an intercooler, in an automobile.

**CONSTITUTION:** An intercooler 19 is provided obliquely at the side position fronter than the front side of an engine 3, and a suction pipe 25 at the downstream of the intercooler 19 is arranged to cross in front of the engine 3, as well as the running wind passing through the intercooler 19 is made to blow against the front side of the engine 3.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]